

FEDERAL COMMUNICATIONS COMMISSION

CLASS OF STATION FM

RITA1

The following application is submitted for action by the Chief, Broadcast Bureau.

ST	FILE NUMBER	CALL	APPLICANT AND LOCATION	NATURE OF APPLICATION
MN	BPH -920604MD N/M	NEW 100.9MHZ	LYNN KETELSEN BLOOMING PRAIRIE MN	CP FOR NEW FM ON FREQ: 100.9 MHZ; ERP: 6 KW (H&V); HAAT: 100 METERS (H&V); 43 52 04 93 07 28

LICENSE EXPIRATION DATE _____

PN: 6-15-92

Shanta V. White

CHIEF, LICENSE DIVISION

RECOMMENDATION: GRANT() CONSTRUCTION DATES, START _____ END _____
CONTESTED () UNCONTESTED ()

APPROVED _____

FOR CHIEF, BROADCAST BUREAU

F.C.C.-WASHINGTON, D.C.

Approved by OMB
3060-0440
Expires 2/28/93

FEDERAL COMMUNICATIONS COMMISSION
FEE PROCESSING FORM

FOR
FCC
USE
ONLY

FCC MAIL ROOM JUN 04 1992

06-05-92 8195296 003

Please read instructions on back of this form before completing it. Section I MUST be completed. If you are applying for concurrent actions which require you to list more than one Fee Type Code, you must also complete Section II. This form must accompany all payments. Only one Fee Processing Form may be submitted per application or filing. Please type or print legibly. All required blocks must be completed or application/filing will be returned without action.

SECTION I			
APPLICANT NAME (Last, first, middle initial) Ketelsen, Lynn			
MAILING ADDRESS (Line 1) (Maximum 85 characters - refer to Instruction (2) on reverse of form) c/o Law Office of Donald E. Martin			
MAILING ADDRESS (Line 2) (if required) (Maximum 85 characters) 2000 L Street, N.W. Suite 200			
CITY Washington			
STATE OR COUNTRY (if foreign address) DC	ZIP CODE 20036	CALL SIGN NEW	OTHER FCC IDENTIFIER
Enter in Column (A) the correct Fee Type Code for the service you are applying for. Fee Type Codes may be found in FCC Fee Filing Guides. Enter in Column (B) the Fee Multiple, if applicable. Enter in Column (C) the result obtained from multiplying the value of the Fee Type Code in Column (A) by the number entered in Column (B), if any.			
(A) FEE TYPE CODE M T R	(B) FEE MULTIPLE (if required)	(C) FEE DUE FOR FEE TYPE CODE IN COLUMN (A) \$2030.00	FOR FCC USE ONLY

SECTION II — To be used only when you are requesting concurrent actions which result in a requirement to list more than one Fee Type Code.			
(A) FEE TYPE CODE	(B) FEE MULTIPLE (if required)	(C) FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	FOR FCC USE ONLY
(2) [] [] []	[] [] [] []	\$ [] [] [] []	RECEIVED JUN 16 PM 1992 EXAMINERS
(3) [] [] []	[] [] [] []	\$ [] [] [] []	
(4) [] [] []	[] [] [] []	\$ [] [] [] []	
(5) [] [] []	[] [] [] []	\$ [] [] [] []	
ADD ALL AMOUNTS SHOWN IN COLUMN C, LINES (1) THROUGH (5), AND ENTER THE TOTAL HERE. THIS AMOUNT SHOULD EQUAL YOUR ENCLOSED REMITTANCE.			
TOTAL AMOUNT REMITTED WITH THIS APPLICATION OR FILING \$ 2030.00			FOR FCC USE ONLY 2030.00

INSTRUCTIONS FOR COMPLETING FEE PROCESSING FORM, FCC FORM 155, August 1991

- (1) **"Applicant Name"** - Enter the name (last, first, middle initial) of the applicant as it appears on the original application or filing being submitted with this Fee Processing Form. If company, enter name which is used commercially.
- (2) **"Mailing Address (Line 1)"** - Enter the street address or post office box number to which the applicant wishes correspondence sent.
- (3) **"Mailing Address (Line 2)"** - This line may be used for further identification of the address if additional space is required.
- (4) **"City"** - Enter the name of the city associated with the given street address.
- (5) **"State or Country"** - Enter the appropriate two-digit state abbreviation as prescribed by the U.S. Postal Service. If address is foreign, enter the appropriate country name here.
- (6) **"ZIP Code"** - Enter the appropriate five or nine-digit ZIP Code prescribed by the U.S. Postal Service.
- (7) **"Call Sign or Other FCC Identifier"** - Enter the applicable call or unique FCC identifier, if any, as shown on your attached application or filing. If applying for a service affecting more than one call sign, enter one call sign only.
- (8) **Column (A), "Fee Type Code"** - Enter correct Fee Type Code(s) from the appropriate Fee Filing Guide. Only one Fee Processing Form may be submitted per application or filing. Inaccurate or erroneous Fee Type Codes may result in your application or filing being returned to you without further processing.
- (9) **Column (B), "Fee Multiple"** - Certain applications and filings may request action with respect to more than one station, license, frequency, or party and can be submitted together with one check if they meet specific conditions. This column is used only if a multiple, i.e., two or more, is being applied for. Examples of when this would be used are renewing more than one call sign, frequency, station, or the transfer of control of more than one station. Refer to the appropriate Fee Filing Guide for additional information.
- (10) **Column (C), "Fee Due for Fee Type Code in Column (A)"** - Enter in this block the amount of the fee associated with the Fee Type Code shown in Column (A) (times (X) the fee multiple, if required).
- (11) **"Total Amount Remitted With This Application or Filing"** - Enter the total of lines (1) through (5) of Column (C). This amount should equal the amount of your check or money order. We will not accept multiple checks.

HOW TO SUBMIT APPLICATIONS AND FILINGS

o Each application or filing should be assembled with the Fee Processing Form, FCC Form 155, stapled to the top of the application with the check placed on top of the Fee Processing Form. **DO NOT STAPLE THE CHECK TO THE APPLICATION OR FEE PROCESSING FORM, FCC FORM 155.** Required copies of applications should be clearly identified as "duplicate copy" and placed behind the original package. **"Stamp and receipt" copies should be placed on top of the original package and CLEARLY identified as return copies.** Extraneous material and extra copies should be avoided at all times. Failure to follow these instructions will delay the processing of your submission.

o Completed applications or filings should be mailed to the proper address shown in the Fee Filing Guide for the particular service for which you are applying or making a filing. **All applications and filings must be properly addressed to the appropriate P.O. box number,** even if hand delivered to the address listed below. Applications received before midnight on a normal business day will receive that day's date as the receipt date. Deliveries made after midnight on Fridays will not be "officially" receipted until the next Monday. Applications received on weekends and government holidays are dated the next regular business day.

o A single check, bank draft or money order made payable to the Federal Communications Commission and denominated in U.S. dollars and drawn upon a U.S. financial institution must be included with each application or filing requiring a fee. No postdated, altered or third-party checks will be accepted. Do not send cash.

o Parties hand delivering applications or filings may receive dated receipt copies by presenting copies of the applications or filings to the acceptance clerk at the time of delivery. **Receipts will be provided for mail-in applications or filings if an extra copy of the application or filing is provided along with a self-addressed stamped envelope. Only one piece of paper per application or filing will be stamped for receipt purposes.**

REMEMBER

o A separate completed Fee Processing Form is required with each application or filing except in certain circumstances. Please refer to the appropriate Fee Filing Guide for additional information.

o A wrong Fee Type Code or incorrect remittance may result in your application or filing being returned without processing, or result in the dismissal of your application or filing. Please ensure that FEE TYPE CODES are correct and that your check or money order equals the amount shown in the TOTAL AMOUNT REMITTED WITH THIS APPLICATION OR FILING block before submitting your application or filing.

o If you have any questions completing this form, please call the Fees Hotline, 202/632-FEES.

FCC NOTICE FOR INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

Part 1, Subpart G of the Commission's rules authorize the FCC to request the information on this form. The information requested is required in order to obtain a license or authorization from the Commission. The purpose of the information is to provide a means to link a fee payment to a specific invoice, application or filing. The information will be used by the Commission to maintain data concerning fees paid to the Commission, for internal financial control, audit, and reporting purposes. Information requested on this form will be available to the public. Your response is required to obtain a license or other authorization from the Commission.

Public reporting burden for this collection of information is estimated to average 10 minutes per response, including the time for reviewing instructions, searching data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Federal Communications Commission, Office of Managing Director, Washington, DC 20554, and to the Office of Management and Budget, Paperwork Reduction Project (3060-0440), Washington, DC 20503.

THIS ADDRESS IS FOR HAND CARRY OR COURIER DELIVERY ONLY:

Federal Communications Commission
c/o Mellon Bank
Three Mellon Bank Center
525 William Penn Way
27th Floor, Room 153-2713
Pittsburgh, Pennsylvania 15259-0001
(Attention: Wholesale Lockbox Shift Supervisor)

APPLICATION FOR CONSTRUCTION PERMIT FOR COMMERCIAL BROADCAST STATION

For COMMISSION Fee Use Only	FEE NO:	For APPLICANT Fee Use Only Is a fee submitted with this application? <input type="checkbox"/> Yes <input type="checkbox"/> No If fee exempt (see 47 C.F.R. Section 1.1112), indicate reason therefor (check one box): <input type="checkbox"/> Noncommercial educational licensee <input type="checkbox"/> Governmental entity
	FEE TYPE	
	FEE AMT:	
	ID SEQ:	FOR COMMISSION USE ONLY FILE NO. <u>BPH-920604MD</u>

Section I - GENERAL INFORMATION

1. Name of Applicant Lynn Ketelsen			Send notices and communications to the following person at the address below: Name Lynn Ketelsen		
Street Address or P.O. Box 1440 Grace Avenue			Street Address or P.O. Box 1440 Grace Avenue		
City Willmar	State MN	ZIP Code 56201	City Willmar	State MN	ZIP Code 56201
Telephone No. (Include Area Code) (612) 235-8253			Telephone No. (Include Area Code) (612) 235-8253		

2. This application is for: ☐ AM ☒ FM ☐ TV

(a) Channel No. or Frequency 265A <u>100.9</u>	(b) Principal Community	City Blooming Prairie	State MN
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(c) Check one of the following boxes:

☒ Application for NEW station

☐ MAJOR change in licensed facilities; call sign: _____

☐ MINOR change in licensed facilities; call sign: _____

☐ MAJOR modification of construction permit; call sign: _____

File No. of construction permit: _____

☐ MINOR modification of construction permit; call sign: _____

File No. of construction permit: _____

☐ AMENDMENT to pending application; Application file number: _____

NOTE: It is not necessary to use this form to amend a previously filed application. Should you do so, however, please submit only Section I and those other portions of the form that contain the amended information.

3. Is this application mutually exclusive with a renewal application?

☐ Yes ☒ No

If Yes, state:

N/A

Call letters	100.9MHZ	State
BPH	-920604MD NEW	
BLOOMING PRAIRIE	MN	
LYNN KETELSEN		

Section II - LEGAL QUALIFICATIONS

Name of Applicant

Lynn Ketelsen

1. Applicant is: (check one box below)

- ☒ Individual ☐ General partnership ☐ For-profit corporation
☐ Other ☐ Limited partnership ☐ Not-for-profit corporation

2. If the applicant is an unincorporated association or a legal entity other than an individual, partnership, or corporation, describe in an Exhibit the nature of the application.

Exhibit No.
N/A

NOTE: The terms "applicant," "parties to this application," and "non-party equity owners in the applicant" are defined in the instructions for Section II of this form. Complete information as to each "party to this application" and each "non-party equity owner in the applicant" is required. If the applicant considers that to furnish complete information would pose an unreasonable burden, it may request that the Commission waive the strict terms of this requirement with appropriate justification.

3. If the applicant is not an individual, provide the date and place of filing of the applicant's enabling charter (e.g., a limited partnership must identify its certificate of limited partnership and a corporation must identify its articles of incorporation by date and place of filing):

Date _____ Place _____

In the event there is no requirement that the enabling charter be filed with the state, the applicant shall include the enabling charter in the applicant's public inspection file. If, in the case of a partnership, the enabling charter does not include the partnership agreement itself, the applicant shall include a copy of the agreement in the applicant's public inspection file.

4. Are there any documents, instruments, contracts or understandings (written or oral), other than instruments identified in response to Question 3 above, relating to future ownership interests in the applicant, including but not limited to, insulated limited partnership shares, nonvoting stock interests, beneficial stock ownership interests, options, rights of first refusal, or debentures?

☐ Yes ☒ No

If Yes, submit as an Exhibit all such written documents, instruments, contracts, or understandings, and provide the particulars of any oral agreement.

Exhibit No.
N/A

5. Complete, if applicable, the following certifications:

(a) Applicant certifies that no limited partner will be involved in any material respect in the management or operation of the proposed station.

☒ Yes ☐ No

If No, applicant must complete Question 6 below with respect to all limited partners actively involved in the media activities of the partnership.

(b) Does any investment company (as defined in 15 U.S.C. Section 80 a-3), insurance company, or trust department of any bank have an aggregated holding of greater than 5% but less than 10% of the outstanding votes of the applicant?

☐ Yes ☒ No

If Yes, applicant certifies that the entity holding such interest exercises no influence or control over the applicant, directly or indirectly, and has no representatives among the officers and directors of the applicant.

N/A
☐ Yes ☐ No

Section II - LEGAL QUALIFICATIONS (Page 2)

6. List the applicant, parties to the application and non-party equity owners in the applicant. Use one column for each individual or entity. Attach additional pages if necessary.

(Read carefully - The numbered items below refer to line numbers in the following table.)

1. Name and residence of the applicant and, if applicable, its officers, directors, stockholders, or partners (if other than individual also show name, address and citizenship of natural person authorized to vote the stock). List the applicant first, officers next, then directors and, thereafter, remaining stockholders and partners.
2. Citizenship.
3. Office or directorship held.
4. Number of shares or nature of partnership interests.
5. Number of votes.
6. Percentage of votes.
7. Other existing attributable interests in any broadcast station, including the nature and size of such interests.
8. All other ownership interests of 5% or more (whether or not attributable), as well as any corporate officership or directorship, in broadcast, cable, or newspaper entities in the same market or with overlapping signals in the same broadcast service, as described in 47 C.F.R. Section 73.3555 and 73.501, including the nature and size of such interests and the positions held.

1.	Lynn Ketelsen 1440 Grace Avenue Willmar MN 56201		
2.	U S A		
3.	100% owner		
4.	100%		
5.	N/A		
6.	N/A		
7.	None		
8.	None		

Section 11 - LEGAL QUALIFICATIONS (Page 3)

7. Does the applicant, any party to the application or any non-party equity owner in the applicant have, or have they had, any interest in:

(a) a broadcast station, or pending broadcast station application before the Commission?

☒ Yes ☐ No

(b) a broadcast application which has been dismissed with prejudice by the Commission?

☒ Yes ☐ No

(c) a broadcast application which has been denied by the Commission?

☐ Yes ☒ No

(d) a broadcast station, the license of which has been revoked?

☐ Yes ☒ No

(e) a broadcast application in any pending or concluded Commission proceeding which left unresolved character issues against the applicant?

☐ Yes ☒ No

If the answer to any of the questions in (a)-(e) above is Yes, state in an Exhibit the following information:

Exhibit No.
3

(1) Name of party having interest;

(2) Nature of interest or connection, giving dates;

(3) Call letters of stations or file number of application or docket; and

(4) Location.

8. (a) Are any of the parties to the application or non-party equity owners in the applicant related (as husband, wife, father, mother, brother, sister, son or daughter) to each other?

☐ Yes ☒ No

(b) Does any member of the immediate family (i.e., husband, wife, father, mother, brother, sister, son or daughter) of any party to the application or non-party equity owner in the applicant have any interest in or connection with any other broadcast station, pending broadcast application or newspaper in the same area (see Section 73.3555(c)) or, in the case of a television station applicant only, a cable television system in the same area (see Section 76.501(a))?

☐ Yes ☒ No

If the answer to (a) or (b) above is Yes, attach an Exhibit giving full disclosure concerning the persons involved, their relationship, the nature and extent of such interest or connection, the file number of such application, and the location of such station or proposed station.

Exhibit No.
N/A

9. State in an Exhibit any interest the applicant or any party to this application proposes to divest in the event of a grant of this application.

Exhibit No.
N/A

OTHER MASS MEDIA INTERESTS

10. (a) Do individuals or entities holding nonattributable interests of 5% or more in the applicant have an attributable ownership interest or corporate officership or directorship in a broadcast station, newspaper or CATV system in the same area? (See Instruction B to Section 11.)

☐ Yes ☒ No

(b) Does any member of the immediate family (i.e., husband, wife, father, mother, brother, sister, son or daughter) of an individual holding a nonattributable interest of 5% or more in the applicant have any interest in or connection with any other broadcast station, pending broadcast application, newspaper in the same area (see Section 73.3555(c)), or, in the case of a television station applicant only, a cable television system in the same area (see Section 76.501(a))?

☐ Yes ☒ No

If the answer to (a) and/or (b) above is Yes, attach an Exhibit giving a full disclosure concerning the persons involved, their relationship, the nature and extent of such interest or connection, the file number of such application, and the location of such station or proposed station.

Exhibit No.
N/A

Section 11 - LEGAL QUALIFICATIONS (Page 4)

CITIZENSHIP AND OTHER STATUTORY REQUIREMENTS

11. (a) Is the applicant in violation of the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments? (See Instruction C to Section 11.)

☐ Yes ☒ No

- (b) Will any funds, credits or other financial assistance for the construction, purchase or operation of the station(s) be provided by aliens, foreign entities, domestic entities controlled by aliens, or their agents?

☐ Yes ☒ No

If the answer to (b) above is Yes, attach an Exhibit giving full disclosure concerning this assistance.

Exhibit No.
N/A

12. (a) Has an adverse finding been made or an adverse final action been taken by any court or administrative body as to the applicant, any party to this application, or any non-party equity owner in the applicant in a civil or criminal proceeding brought under the provisions of any law related to the following:

Any felony; broadcast related antitrust or unfair competition; criminal fraud or fraud before another governmental unit; or discrimination?

☐ Yes ☒ No

- (b) Is there now pending in any court or administrative body any proceeding involving any of the matters referred to in (a) above?

☐ Yes ☒ No

If the answer to (a) and/or (b) above is Yes, attach an Exhibit giving full disclosure concerning persons and matters involved, including an identification of the court or administrative body and the proceeding (by dates and file numbers), a statement of the facts upon which the proceeding is or was based or the nature of the offense alleged or committed, and a description of the current status or disposition of the matter.

Exhibit No.
N/A

NOTE: If this application is for a change in an operating facility do not fill out this section.

- ☒
- Yes
- ☐
- No

\$ 200,000.00

FCC 301 (Page 6)
June 1989

Section IV-A - PROGRAM SERVICE STATEMENT

Attach as an Exhibit, a brief description, in narrative form, of the planned programming service relating to the issues of public concern facing the proposed service area.

Exhibit No. 1

Section IV-B - INTEGRATION STATEMENT

Attach as an Exhibit the information required in 1. and 2. below.

Exhibit No. 2

1. List each principal of the applicant who, in the event of a grant of the application on a comparative basis proposes to participate in the management of the proposed facility and, with respect to each such principal, state whether he or she will work full-time (minimum 40 hours per week) or part-time (minimum 20 hours per week) and briefly describe the proposed position and duties.
2. State with respect to each principal identified in response to Item 1. above, whether the applicant will claim qualitative credit for any of the following enhancement factors:
 - (a) Minority Status
 - (b) Past Local Residence
If Yes, specify whether in the community of license or service area and the corresponding dates.
 - (c) Female Status
 - (d) Broadcast Experience
If Yes, list each employer and position and corresponding dates.
 - (e) Daytime Preference



CONSULTING COMMUNICATIONS ENGINEERS

1306 W. County Road F, St. Paul, MN 55112
(612) 631-1338 • Fax (612) 631-3502

**ENGINEERING EXHIBIT FOR
APPLICATION FOR FM CONSTRUCTION PERMIT
LYNN KETELSEN
BLOOMING PRAIRIE, MINNESOTA**

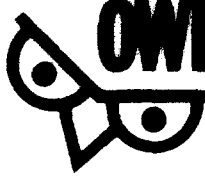
CHANNEL 265

6 KW(H&V)

100 METERS

May 19, 1992

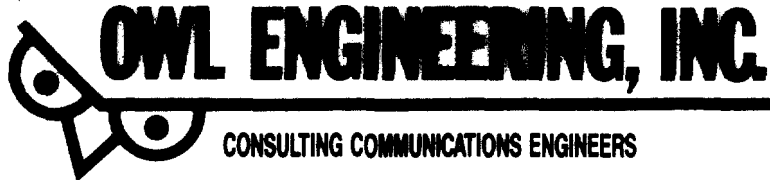
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**ENGINEERING EXHIBIT FOR
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LYNN KETELSEN
BLOOMING PRAIRIE, MINNESOTA
CHANNEL 265 6 KW 100 METERS**

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CHANNEL 265 6 KW 100 METERS**

ENGINEERING STATEMENT

This engineering exhibit, of which this statement is a part, was prepared in accordance with the Rules and Regulations of the Federal Communications Commission and pursuant to the provisions of Section V-B of FCC Form 301 on behalf of LYNN KETELSEN (hereafter Ketelsen) in support of an application for authority to construct an FM broadcast facility operating on channel 265 (100.9 Mhz) at BLOOMING PRAIRIE, MINNESOTA. The effective radiated power proposed is 6 KW, both in the horizontal and vertical plane, and the antenna center of radiation is 100 meters. This power/height combination is a maximized class A facility permitted under the current rules and regulations.

Notification of the proposed tower construction location has been made to the Great Lakes Regional office of the FAA. Engineering specifications for the major aspects of the proposed tower are included in figure E-2.



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BLOOMING PRAIRIE, MINNESOTA
CHANNEL 265 6 KW 100 METERS**

PROPOSED TRANSMITTER AND STUDIO LOCATIONS

Ketelsen proposes to operate from a site uniquely described by the geographic coordinates:

43° 52' 04" North Latitude

93° 07' 28" West Longitude

Figure E-4 is a portion of the Blooming Prairie, Minnesota 7.5 minute U.S.G.S. topographic quadrangle map showing the proposed transmitter site. No FM or TV transmitters are located within 60 meters of the proposed antenna location. Since there are no other FM or TV facilities located nearby there is not expected to be any receiver induced intermodulation interference or other objectionable interference.

Because the area is Rural, there is not expected to be any problem with blanketing interference. The applicant is aware of the provisions of Section 73.318 of the FCC's Rules and the requirement for satisfying all complaints of blanketing interference that are received within a one-year period.

The main studio for the station will be located in the BLOOMING PRAIRIE area, at a site yet to be determined.

The applicant proposes to install an emergency power system to ensure continued service during interruption of normal electrical service.



OWL ENGINEERING, INC.

CONSULTING COMMUNICATIONS ENGINEERS

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CHANNEL 265 6 KW 100 METERS**

COVERAGE CONTOURS

The three-to-sixteen-kilometer average terrain elevations were derived from the National Geophysical Data Center (NGDC) 30-second topography data base. However, the site elevation was determined from the U.S.G.S. 7.5 minute Blooming Prairie topography quadrangle map.

The effective antenna radiation center height for each of the eight standard 45-degree spaced radials was used in conjunction with the F(50,50) metric curves of Figure 1 of Section 73.333 of the Rules to determine the distances to the 70 dBu and 60 dBu coverage contours. The contours drawn from the data are depicted on the map in figure E-5. As is readily evident, all of BLOOMING PRAIRIE, MINNESOTA is included within the proposed 70 dBu coverage contour as required by the rules. The radial drawn through the principal city is depicted on the profile plot in Engineering Exhibit E-7. This permitted a determination to be made that there are no major obstructions in the intervening path from the transmitter site to the principal community.



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CHANNEL 265 6 KW 100 METERS**

POPULATION AND AREA DATA

Based on the 1990 U.S. Census of Population, the number of persons enclosed by the proposed 60 dBu coverage contour is 65,793 persons. The population count was made through the employment of a computer program containing a data base including the geographic coordinates of the centroids of population groupings. The area within the proposed 60 dBu coverage contour is 2,510 square kilometers. This area was determined by a computerized integration program.

ALLOCATION CONSIDERATIONS

A review of allotments and assignments on channel 265, on the three immediately upper adjacent, the three immediately lower adjacent channels, and on channels 212 and 211 (53 and 54 channels removed from channel 265), included as Engineering Exhibit E-8, showed that the site proposed would be in accordance with section 73.207 of the FCC Rules.



**ENGINEERING EXHIBIT FOR
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BLOOMING PRAIRIE, MINNESOTA
CHANNEL 265 6 KW 100 METERS**

ENVIRONMENTAL IMPACT STATEMENT

The instant proposal is categorically excluded from environmental processing since none of the conditions of Section 1.1306(b)(2) and (3) would be involved for the following reasons:

1) The site proposed is not in or near any location referenced in Section 1.1306(b)(1) as being of environmental interest.

2) The provisions of Section 1.1306(b)(2) relating to the use of high intensity strobe lighting does not apply since the antenna height proposed with this application does not require this form of lighting to be utilized.

3) Compliance to Section 1.1306(b)(3) regarding human exposure to RF radiation was examined for a single source. A search was made about the proposed site coordinates to locate any additional sources of RF radiation. No other sources were found.



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CHANNEL 265 6 KW 100 METERS

ENVIRONMENTAL CONSIDERATIONS CONTINUED

The power density at the base of the tower was calculated using the following formula from OST Bulletin Number 65, October, 1985:

$$S = \frac{(0.64)(1.64)(ERP)(1000)(\text{milliwatts/watt})}{(\pi(R)^2)}$$

where: S = power density in milliwatts per square centimeter
ERP = effective radiated power in watts
R = distance to radiation source in centimeters
 $\pi = 3.146$

Using this formula and the values shown below, a power density of 0.05 mW/cm² is found to exist at the base of the tower.

ERP = 12,000 watts
R = 10,000 cm.

The ANSI limit is 1.0 mW/cm². It is evident that any person at the base of the tower would be well within the ANSI exposure limit. Manipulating the above referenced formula, the minimum distance from the antenna required to achieve ANSI guidelines would be 21 meters.

Access to RF circuitry will be restricted. Signs will be posted warning of the potential danger. When persons require access to the tower for maintenance purposes, the transmitter power will be reduced or completely eliminated to comply with ANSI guidelines. Hence, the conditions of Section 1.1306(b)(3) would not be involved.



CONSULTING COMMUNICATIONS ENGINEERS

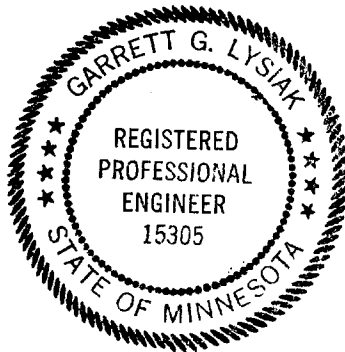
1306 W. County Road F, St. Paul, MN 55112
(612) 631-1338 • Fax (612) 631-3502

**ENGINEERING EXHIBIT FOR
APPLICATION FOR FM CONSTRUCTION PERMIT
LYNN KETELSEN
BLOOMING PRAIRIE, MINNESOTA
CHANNEL 265 6 KW 100 METERS**

CONCLUSIONS

Based on the engineering studies provided, the following conclusions can be obtained:

- (1) Implementation of the instant proposal will provide BLOOMING PRAIRIE with a full time aural broadcast service.
- (2) 65,793 persons in 2,510 square kilometers would have an available signal strength of 60 dBu or greater from the proposed construction location.
- (3) All of BLOOMING PRAIRIE would be served with a signal of 70 dBu or greater from the proposed construction site.
- (4) The proposal is in complete conformance with all technical rules of the Federal Communications Commission.



Garrett G. Lysiak, P.E.

May 19, 1992

SECTION V-B - FM BROADCAST ENGINEERING DATA

FOR COMMISSION USE ONLY

File No. _____
ASB Referral Date _____
Referred by _____

Name of Applicant

Lynn Ketelsen

Call letters (if issued)

N/A

Is this application being filed in response to a window?

☒ Yes ☐ No

If Yes, specify closing date: 06/04/1992

Purpose of Application: (check appropriate box(es))

- ☒ Construct a new (main) facility
☐ Modify existing construction permit for main facility
☐ Modify licensed main facility

- ☐ Construct a new auxiliary facility
☐ Modify existing construction permit for auxiliary facility
☐ Modify licensed auxiliary facility

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

- ☐ Antenna supporting-structure height
☐ Antenna height above average terrain
☐ Antenna location
☐ Main Studio location

- ☐ Effective radiated power
☐ Frequency
☐ Class
☐ Other (Summarize briefly)

File Number(s) _____

1. Allocation:

Channel No.	Principal community to be served:		
	City	County	State
265	Bloomington	Dodge/Steele	MN

Class (check only one box below)

☒ A ☐ B1 ☐ B ☐ C3
☐ C2 ☐ C1 ☐ C

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark.

5.9 kilometers West of Bloomington, MN.

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

Latitude	N	43	°	52	'	04	"	Longitude	W	93	°	07	'	28	"
----------	---	----	---	----	---	----	---	-----------	---	----	---	----	---	----	---

3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)?

☐ Yes ☒ No

If Yes, give call letter(s) or file number(s) or both. _____

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any. _____

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates?

☐ Yes ☒ No

If Yes, list old coordinates.

Latitude	°	'	"	Longitude	°	'	"
----------	---	---	---	-----------	---	---	---

5. Has the FAA been notified of the proposed construction?

☒ Yes ☐ No

If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available.

Exhibit No.
E-1

Date 5/19/92

Office where filed Great Lakes Regional

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

Landing Area	Distance (km)	Bearing (degrees True)
(a) <u>N/A</u>	<u> </u>	<u> </u>
(b) <u> </u>	<u> </u>	<u> </u>

7. (a) Elevation: (to the nearest meter)

(1) of site above mean sea level: 388 meters

(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and 99 meters

(3) of the top of supporting structure above mean sea level [(a)(1) + (a)(2)] 487 meters

(b) Height of radiation center: (to the nearest meter) H = Horizontal; V = Vertical

(1) above ground 93 meters (H)

93 meters (V)

(2) above mean sea level [(a)(1) + (b)(1)] 481 meters (H)

481 meters (V)

(3) above average terrain 100 meters (H)

100 meters (V)

8. Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.

Exhibit No.
E-2

9. Effective Radiated Power:

(a) ERP in the horizontal plane 6 kw (H*) 6 kw (V*)

(b) Is beam tilt proposed?

☐ Yes ☒ No

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevational plot of radiated field.

Exhibit No.
N/A

N/A kw (H*) N/A kw (V*)

*Polarization

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 3)

10. Is a directional antenna proposed?

☐ Yes ☒ No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of the relative field.

Exhibit No.
N/A

11. Will the proposed facility satisfy the requirements of 47 C.F.R. Sections 73.315(a) and (b)?

☒ Yes ☐ No

If No, attach as an Exhibit a request for waiver and justification therefor, including amounts and percentages of population and area that will not receive 3.16 mV/m service.

Exhibit No.
N/A

12. Will the main studio be within the protected 3.16 mV/m field strength contour of this proposal?

☒ Yes ☐ No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125.

Exhibit No.
N/A

13. (a) Does the proposed facility satisfy the requirements of 47 C.F.R. Section 73.207?

☒ Yes ☐ No

(b) If the answer to (a) is No, does 47 C.F.R. Section 73.213 apply?

☐ Yes ☐ No

(c) If the answer to (b) is Yes, attach as an Exhibit a justification, including a summary of previous waivers.

Exhibit No.
N/A

(d) If the answer to (a) is No and the answer to (b) is No, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose.

Exhibit No.
N/A

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

Exhibit No.
N/A

(1) Protected and interfering contours, in all directions (360°), for the proposed operation.

(2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as the transmitter location.

(3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.

(4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.

(5) The official title(s) of the map(s) used in the exhibit(s).

14. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast (except citizens band or amateur) radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference?

☒ Yes ☐ No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. (See 47 C.F.R. Sections 73.315(b), 73.316(e) and 73.318.)

Exhibit No.
E-3

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 4)

15. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction V. The map must further clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.

Exhibit No.
E-4

16. Attach as an Exhibit (name the source) a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.
E-5

SAINT PAUL MAP, SCALE 1:250,000

- (a) the proposed transmitter location, and the radials along which profile graphs have been prepared;
- (b) the 3.16 mV/m and 1 mV/m predicted contours; and
- (c) the legal boundaries of the principal community to be served.

17. Specify area in square kilometers (1 sq. mi. = 2.59 sq. km.) and population (latest census) within the predicted 1 mV/m contour.

Area 2,510 sq. km.

Population 65,793

18. For an application involving an auxiliary facility only, attach as an Exhibit a map (Sectional Aeronautical Chart or equivalent) that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.
N/A

- (a) the proposed auxiliary 1 mV/m contour; and
- (b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license.

19. Terrain and coverage data (to be calculated in accordance with 47 C.F.R. Section 73.313)

Source of terrain data: (check only one box below)

☒ Linearly interpolated 30-second database

☐ 7.5 minute topographic map

(Source: NGDC)

☐ Other (briefly summarize)

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 5)

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances	
		To the 3.16 mV/m contour (kilometers)	To the 1 mV/m contour (kilometers)
*			
0	97	15.8	27.8
45	89	15.1	26.8
90	92	15.4	27.2
135	93	15.5	27.3
180	99	16.1	28.2
225	107	16.8	29.2
270	107	16.8	29.2
315	117	17.6	30.3

* Radial through principal community, if not one of the major radials. This radial should NOT be included in the calculation of HAAT.

20. Environmental Statement (See 47 C.F.R. Section 1.1301 et seq.)

Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact?

☐ Yes ☒ No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311.

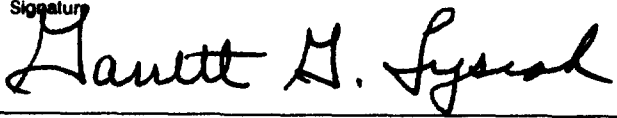
If No, explain briefly why not.

Exhibit No.
E-6

Please see Engineering Exhibit E-6

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name (Typed or Printed) Garrett G. Lysiak, P.E.	Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer
Signature 	Address (Include ZIP Code) 1306 West County Road F Arden Hills, MN 55112
Date 05/19/1992	Telephone No. (Include Area Code) (612) 631-1338

ENGINEERING EXHIBIT E-1

DO NOT REMOVE CARBONS

Form Approved OMB No. 2120-0001

NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION			Aeronautical Study Number
1. Nature of Proposal A. Type <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration B. Class <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary (Duration _____ months) C. Work Schedule Dates Beginning <u>As per FCC</u> End <u>approval</u>		2. Complete Description of Structure A. Include effective radiated power and assigned frequency of all existing, proposed or modified AM, FM, or TV broadcast stations utilizing this structure. B. Include size and configuration of power transmission lines and their supporting towers in the vicinity of FAA facilities and public airports. C. Include information showing site orientation, dimensions and construction materials of the proposed structure. A) 6 KW(H&V) 100.9MHz B) Does not apply. C) Uniform cross section steel guyed tower with a side mounted FM antenna <i>(If more space is required, continue on a separate sheet.)</i>	
3. Name and address of individual, company, corporation, etc. proposing the construction or alteration. (Number, Street, City, State and Zip Code) (612) 235-8253 area code Telephone Number TO Lynn Ketelsen 1440 Grace Ave Willmar, MN 56201 B. Name, address and telephone number of proponent's representative if different than 3 above. Michael W Radovich Owl Engineering, Inc. 1306 W County Road F, Ste 105 Arden Hills, MN 55112 (612)631-1338			
4. Location of Structure A. Coordinates (To nearest second) 43° 52' 04" Latitude 93° 07' 28" Longitude B. Nearest City, Town and State Blooming Prairie, MN (1) Distance to AB 3 miles (2) Direction to AB EAST C. Name of nearest airport, heliport, flightpark, or seaplane base AUM (1) Distance from structure to nearest point of nearest runway 14.800 nm (2) Direction from structure to airport 145.78°		5. Height and Elevation (Complete to the nearest foot) A. Elevation of site above mean sea level 1273 B. Height of Structure including all appurtenances and lighting (if any) above ground, or water if so situated 325 C. Overall height above mean sea level (A + B) 1598	
D. Description of location of site with respect to highways, streets, airports, prominent terrain features, existing structures, etc. Attach a U.S. Geological Survey quadrangle map or equivalent showing the relationship of construction site to nearest airport(s). <i>(if more space is required, continue on a separate sheet of paper and attach to this notice.)</i> 3.67 miles west of Blooming Prairie, MN.			
Notice is required by Part 77 of the Federal Aviation Regulations (14 C.F.R. Part 77) pursuant to Section 1101 of the Federal Aviation Act of 1958, as amended (49 U.S.C. 1101). Persons who knowingly and willingly violate the Notice requirements of Part 77 are subject to a fine (criminal penalty) of not more than \$500 for the first offense and not more than \$2,000 for subsequent offenses, pursuant to Section 902(a) of the Federal Aviation Act of 1958, as amended (49 U.S.C. 1472(a)).			
I HEREBY CERTIFY that all of the above statements made by me are true, complete, and correct to the best of my knowledge. In addition, I agree to obstruction mark and/or light the structure in accordance with established marking & lighting standards if necessary.			
Date 5/19/92		Typed Name/Title of Person Filing Notice Michael Radovich/Engineer	
		Signature 	
unless: <input type="checkbox"/> A. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> B. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> C. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> D. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> E. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> F. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> G. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> H. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> I. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> J. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> K. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> L. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> M. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> N. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> O. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> P. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> Q. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> R. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> S. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> T. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> U. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> V. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> W. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> X. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> Y. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals. <input type="checkbox"/> Z. Construction is for a structure which is to be used for the purpose of transmitting or receiving radio frequency signals.			